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no. 1
AMHERST COLLEGE

*Alumni Reading and Study
In Science*

PHYSICS LEAFLETS

NUMBER 1

AMHERST
MASSACHUSETTS

October, 1924

Alumni Reading and Study

THE AMHERST PLAN

In the belief that a college should serve its graduates by helping them to obtain the best available knowledge of whatever vitally interests them beyond the confines of their business or professional careers, Amherst College offers to its Alumni an opportunity to continue systematically, under the guidance of the College, studies begun during, or undertaken since, their undergraduate years. The means adopted for this service vary widely with the subject, the individual's desires, and the opportunity. Book-lists with annotations, outlines of college courses, occasional bulletins, some personal correspondence, conferences at Amherst and elsewhere, are some of these ways. This is one of the publications through which Amherst College is placing its resources at the service of its Alumni.

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PHYSICS

Recommendations by

PROFESSOR S. R. WILLIAMS

MILLIKAN, R. A., *The Electron*. Completely revised edition. University of Chicago Press. \$1.85. In this splendidly written little volume Professor Millikan, winner of the Nobel Prize in Physics for 1923, presents in very simple language many of the research problems which he or his pupils solved in connection with those investigations, on the basis of which Professor Millikan was awarded the Nobel Prize.

MILLIKAN, R. A. *Science and Life*. Pilgrim Press, Boston. \$1.00. Another small book from the same writer as the author of "The Electron". In these days of indifference to the best things in life it is extremely refreshing to hear one who has made his imprint on modern science frankly discussing his belief in the relationship of Science and Religion.

STEWART, O. M. *Physics*. A Textbook for Colleges. Ginn and Company. 1924. \$. Not infrequently readers desire a general book of reference in any given field. For those interested in the subject of Physics, Professor Stewart of the University of Missouri has written a textbook which is exceptionally interesting to read, merely for general information. For those who fear the mathematics of physics this book will be a pleasant surprise.

Physics Courses, 1924-1925

1. General Physics: Mechanics, sound, heat, electricity, magnetism and light. It is the aim of this course to lay a good foundation for further study in both pure and applied physics. It is desired that out of the year's work may come a better understanding of the scientific method and spirit of modern physics. The analytical method of presentation will be stressed.

2. (a) Electricity, magnetism, and electrical measurements; (b) heat and elementary thermodynamics; (c) electric discharge through gases, radioactivity and electron theory of matter.

3. (a) Light, diffraction, polarization and double refraction in crystals; (b) theory of electric machinery—direct current; (c) theory of alternating currents of electricity, and applications.

4. Research in Physics. Problems in research will be assigned to those taking this course. Primarily a laboratory course. Certain hours of the laboratory periods will be taken for discussion of the work.